

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 January 2003 (30.01.2003)

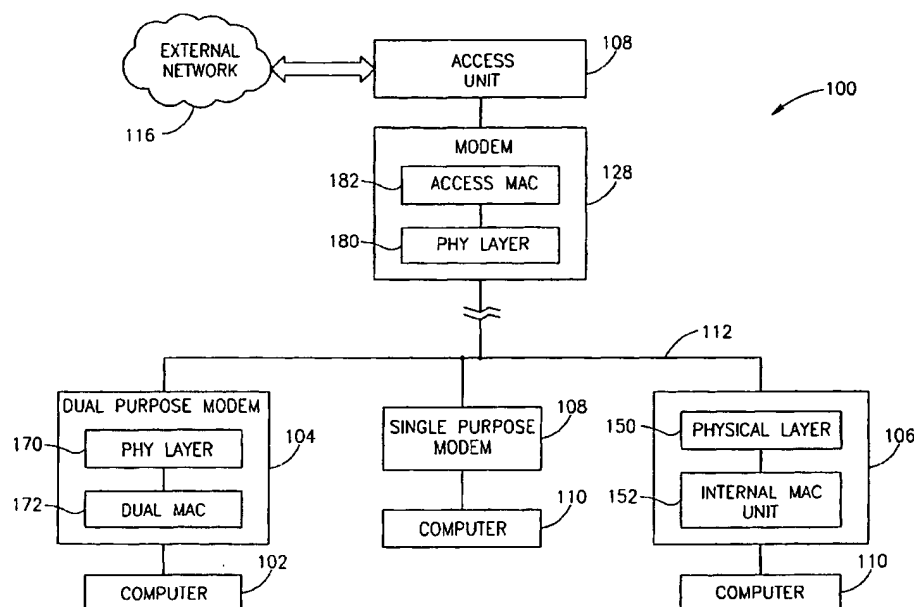
PCT

(10) International Publication Number
WO 03/009083 A3

- (51) International Patent Classification⁷: **H04J 3/22**, (72) Inventors; and
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- (21) International Application Number: PCT/IL02/00582
- (22) International Filing Date: 17 July 2002 (17.07.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/306,030 17 July 2001 (17.07.2001) US
60/307,251 23 July 2001 (23.07.2001) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US PCT/IL01/00745 and (CIP)
Filed on 12 August 2001 (12.08.2001)
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent

[Continued on next page]

(54) Title: DUAL PURPOSE POWER LINE MODEM



(57) Abstract: A modem (104) which includes an application interface for receiving packets to be transmitted on an electrical power network (112), a network interface connecting the modem to the electric power network, at least one media access control (MAC) unit adapted to perform MAC layer tasks in accordance with at least two different MAC protocols (172), on packets received from the application interface, and at least one physical layer unit adapted to transmit packets from the at least one MAC unit onto the electric power network, through the network interface, in a same frequency band.

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(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:

24 April 2003

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL02/00582

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04J 3/22; H04M 11/04

US CL : 370/463, 469; 340/310.01-310.08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/463, 469; 340/310.01-310.08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,818,821 A (SCHURIG) 06 October 1998 (06.10.1998), column 2, lines 45 to column 4, lines 35 and Fig. 1	1-34

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Date of the actual completion of the international search

09 December 2002 (09.12.2002)

Date of mailing of the international search report

17 JAN 2003

Name and mailing address of the ISA/US

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